



Motorized Mini Escalator Speed Control version

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Summary

Remix from the original part, add speed control system.

[Learning](#) > [Engineering](#)

Tags: [update](#) [escalator](#)

The Escalator design is such great. Thanks to **AlexY!!!!!!!**

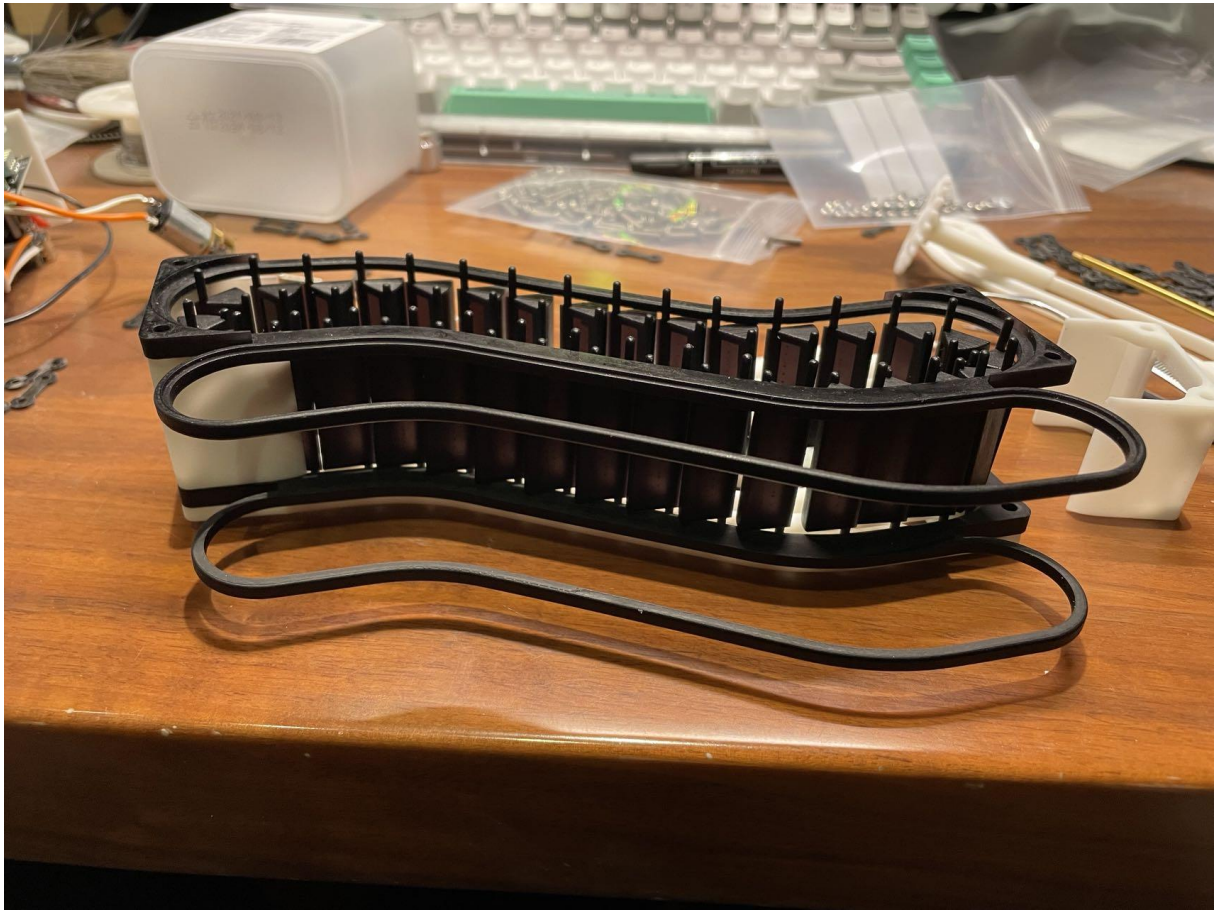
Remix update!!

So i printed it with my SLA machine.

Find out its so difficult to assemble.

Easy Way to Assemble

In my opinion, the right way to assemble the escalator is forget about the electric part.



no.1 handrail mid guide + 32*steps +drive side sprocket +track guide
+outer guide

no.2 disassemble the one side and add the track guide in.(if possible add
some lubricant)

no.3 do the same on another side.

no.4 add the electric part.

Add Speed Control System

I add the 5V-36V PWM control board with forward and reverse switch.

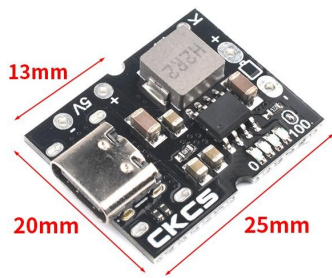
But this board only working in 5v.(tested)

[https://detail.tmall.com/item.htm?](https://detail.tmall.com/item.htm?id=644650177551&spm=a1z09.2.0.0.3a132e8dqAzjkj&_u=s1ti3vh41c1)



[id=644650177551&spm=a1z09.2.0.0.3a132e8dqAzjkj&_u=s1ti3vh41c1](https://detail.tmall.com/item.htm?id=644650177551&spm=a1z09.2.0.0.3a132e8dqAzjkj&_u=s1ti3vh41c1)

Change to DPDT 3-position On-Off-On toggle switch



Add a new charging board can charge the 18650 battery,

Also can output 5V.

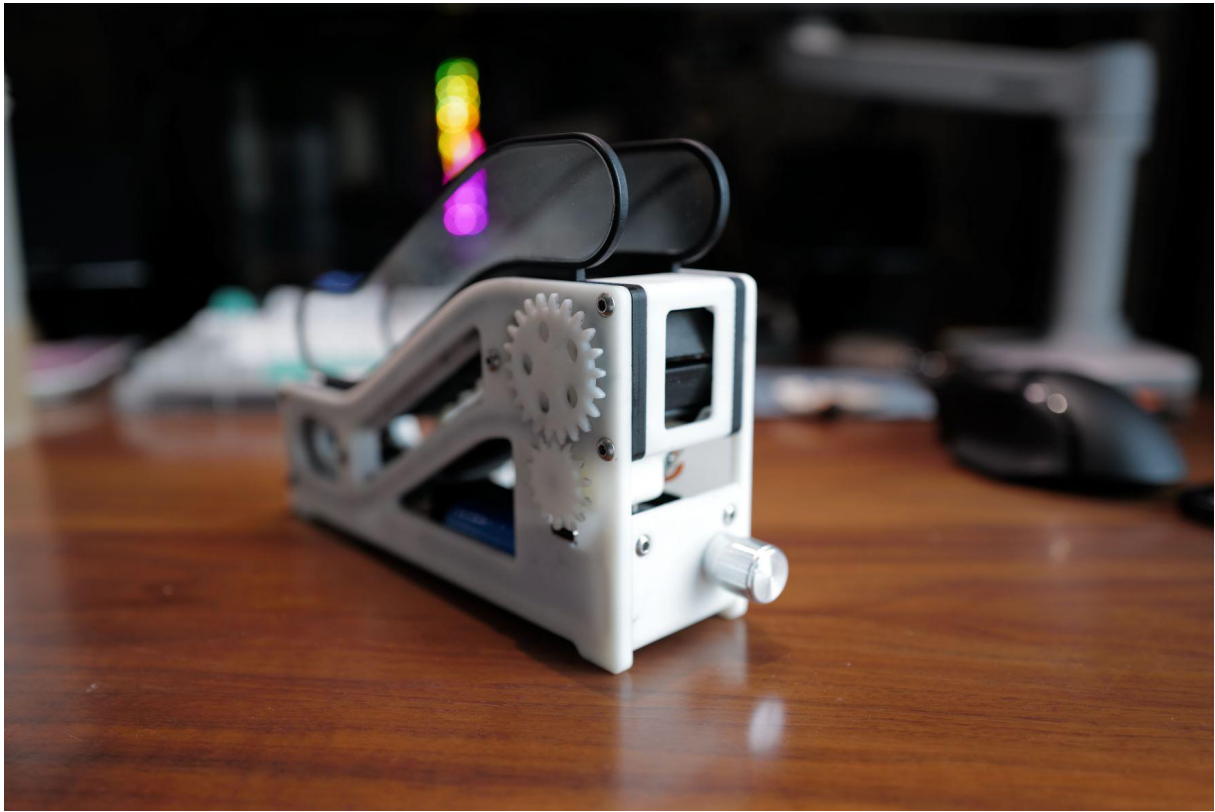
[https://detail.tmall.com/item.htm?](https://detail.tmall.com/item.htm?id=649847206720&spm=a1z09.2.0.0.6ce72e8dqAMdnc&_u=s1ti3vhc1cd)

[id=649847206720&spm=a1z09.2.0.0.6ce72e8dqAMdnc&_u=s1ti3vhc1cd](https://detail.tmall.com/item.htm?id=649847206720&spm=a1z09.2.0.0.6ce72e8dqAMdnc&_u=s1ti3vhc1cd)

Redesign the bottom cover, both side outer guide.

Add Acrylic side panel

Redesign the handrail mid guide that can fit the 1mm Acrylic side panel



This remix is based on



Motorized Mini Desktop Escalator

by AlexY

Model files



handrail_mid_guide-v2.stl



handrail_mid_guide_v2_mirror.stl



down_plate_redesign.stl



left_outer_guide_redesign.stl



right_outer_guide_redesign.stl



acrylic_side_panel.dxf

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